

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L2    | 11   | @ad<="20040122" and Actuator with serpentine and "line width"           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:33 |
| L3    | 0    | @ad<="20040122" and "morph actuator" same "line" with (width or wide)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:33 |
| L4    | 0    | @ad<="20040122" and "bimorph actuator" same "line" with (width or wide) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:40 |
| L6    | 457  | @ad<="20040122" and "actuator" with "line" with (width or wide)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:35 |
| L7    | 27   | @ad<="20040122" and "actuator" with "line width"                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:40 |
| L9    | 4    | @ad<="20040122" and "bimorph actuator" with wide                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:41 |
| L10   | 11   | @ad<="20040122" and "bimorph actuator" same wide                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 13:41 |
| L11   | 180  | @ad<="20040122" and (257/254). ccls.                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 14:07 |
| L12   | 23   | cantil  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 14:02 |
| L14   | 1239 | cantilever same MEMS  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/18 14:02 |

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| L15 | 407  | @ad<="20040122" and (257/232).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:08 |
| L16 | 1365 | @ad<="20040122" and (257/432).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:08 |
| L17 | 536  | @ad<="20040122" and (257/467).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:09 |
| L18 | 160  | @ad<="20040122" and (257/470).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 14:09 |
| S1  | 2    | "20050161751"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/17 15:48 |
| S4  | 396  | @ad<="20040122" and "MEMS"<br>and bimorph and actuator               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/17 15:53 |
| S7  | 190  | @ad<="20040122" and (360/77.<br>16).ccls.                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/17 15:55 |
| S8  | 95   | @ad<="20040122" and "MEMS"<br>and bimorph and actuator and<br>static | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/17 16:17 |
| S9  | 320  | @ad<="20040122" and (310/331).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:19 |
| S10 | 313  | @ad<="20040122" and (310/332).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/17 15:56 |
| S11 | 502  | @ad<="20040122" and (310/330).<br>ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/17 16:02 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S12 | 674 | @ad<="20040122" and (257/414).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 13:57 |
| S13 | 58  | @ad<="20040122" and "bimorph<br>actuator" and static                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:13 |
| S14 | 1   | @ad<="20040122" and "morph<br>actuator" and static                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 13:33 |
| S15 | 11  | @ad<="20040122" and bimorph<br>with actuator same "polysilicon"<br>same "gold" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:25 |
| S16 | 703 | @ad<="20040122" and (359/223).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:19 |
| S17 | 731 | @ad<="20040122" and (359/224).<br>ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:47 |
| S18 | 3   | @ad<="20040122" and "bimorph<br>actuator" and "payload" and "static"           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:32 |
| S19 | 8   | @ad<="20040122" and "bimorph<br>actuator" and "payload"                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:29 |
| S20 | 495 | @ad<="20040122" and actuator<br>and "payload" and static                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:30 |
| S21 | 18  | @ad<="20040122" and actuator<br>and "payload" and static and<br>deformable     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:30 |
| S22 | 349 | @ad<="20040122" and "bimorph<br>actuator"                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:54 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S23 | 422 | @ad<="20040122" and (60/527).<br>ccls.                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 08:47 |
| S24 | 209 | @ad<="20040122" and (60/528).<br>ccls.                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 10:29 |
| S25 | 1   | "20020106834".PN.   | US-PGPUB  | OR | ON | 2006/05/18 08:52 |
| S26 | 594 | @ad<="20040122" and "MEMS<br>actuator"                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:07 |
| S27 | 1   | "6449406".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 08:54 |
| S28 | 1   | "6438954".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 08:55 |
| S29 | 1   | "6366414".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 08:55 |
| S30 | 1   | "6360036".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 08:55 |
| S31 | 1   | "6275325".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 08:55 |
| S32 | 1   | "6259835".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 08:55 |
| S33 | 464 | @ad<="20040122" and Actuator<br>and serpentine and "MEMS"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:11 |
| S34 | 16  | @ad<="20040122" and Actuator<br>same serpentine same "MEMS" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:33 |
| S35 | 1   | "6070851".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 09:23 |
| S36 | 1   | "6067797".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 09:24 |
| S37 | 1   | "6044646".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 09:24 |
| S38 | 1   | "5903380".PN.   | USPAT;<br>USOCR   | OR | ON | 2006/05/18 09:24 |
| S39 | 469 | @ad<="20040122" and Actuator<br>same serpentine             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/18 09:46 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S40 | 197 | @ad<="20040122" and "MEMS"<br>and actuator same serpentine | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/18 09:34 |
| S41 | 250 | @ad<="20040122" and Actuator<br>with serpentine            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2006/05/18 13:31 |
| S42 | 2   | ("6678458").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/18 10:29 |